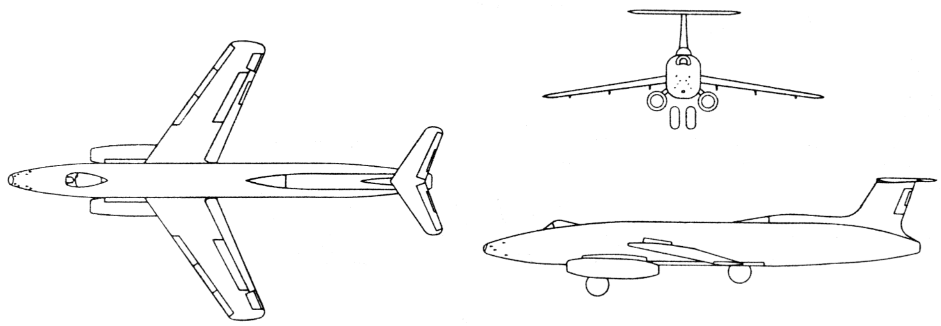
EXPERIMENTAL

Characteristics Summary

BOMBER XB-51



MARTIN

Wing area .... 548 sq ft
Length .... 85.1 ft
Span .... 53.1 ft
Height .... 17.3 ft

AVAILABILITY			PROCUREMENT			
Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

STATUS

1. Design initiated: February 1947
2. First flight: 28 October 1949
3. First acceptance: August 1950 (estimated)

POWER PLANT

(3) J47-GE-13
General Electric
ENGINE RATINGS

S.L. Static	LB - RPM
Max:	*6000 - 7950
Mil:	5200 - 7950
Nor:	4320 - 7370

*Wet

FEATURES

Crew: 2
Cabin Pressurization and Cooling
Ejection Seats
Shoran
Variable Wing & Tail Incidence
Deceleration Parachute
ATO: 4 x 1000 lb (14 sec duration)
Max Fuel Cap: 3535 gal

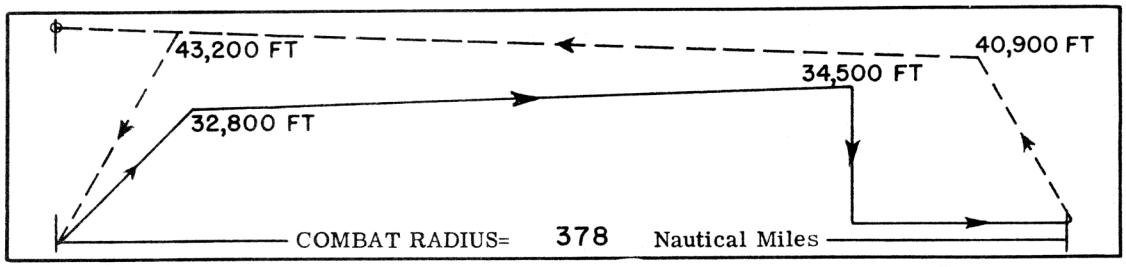
ARMAMENT

Turrets:	None
Guns:	8x20 mm
Ammunition (tot.):	1280 rds
Max Bomb Load:	
Internal:	4x1600 lb
External:	2x2000 lb
Max Bomb Size:	4000 lb
Rocket Provisions:	8x5" HVAR

Classification cancelled
or changed to Unclassified
AUTH: AFSC AFLC Sec. Class. Guide 1 Jan 64, DOD Dir 5200.10
By A.R. Lonneborn 16 Dec 1966
Signature and Grade

2nd Ed. 1 March 1951

Characteristics Summary Basic Mission XB-51



PERFORMANCE

COMBAT RADIUS	COMBAT RANGE	COMBAT SPEED
378 naut. mi with 4000 lb payload at 463 knots avg. in 1.82 hours.	934 naut. mi with 4000 lb payload at 469 knots avg. in 2.07 hours.	500 knots at 35,000 ft alt, max power
		MAXIMUM SPEED
		560 knots at zero ft alt, max power
C L I M B	**C E I L I N G**	**T A K E - O F F**
3720 fpm sea level, take-off weight normal power	32,400 ft 100 fpm, take-off weight normal power	ground run 4340 ft * no assist | 3650 ft ** assisted
6980 fpm sea level, combat weight maximum power	38,900 ft 500 fpm, combat weight maximum power	over 50 ft height 5590 ft * no assist | 4540 ft ** assisted
L O A D	**W E I G H T S**	**STALLING SPEED**
Bombs: 4000 lb Ammunition: 1280 rds/20mm Fuel: 2835 gal protected 100 % droppable 0 % external 0 %	Empty..... 29,584 lb Combat... 41,457 lb Take - off 55,923* lb limited by mission	133 knots flaps down, take-off weight
		TIME TO CLIMB
		—

NOTES

1. PERFORMANCE BASIS:
   (a) Estimated data
   (b) Fuel density: 6.42 lb/gal (JP-3)
   (c) In computing Radius and Range, specific fuel consumptions have been increased 5% to allow for variation of fuel flow in service aircraft.
   (d) Above performance based on the following powers (static sea level) T.O. 6000 lb (wet) @ 7900 RPM, Max 5200 lb @ 7900 RPM Nor. 4800 @ 7330 RPM
2. REVISION BASIS: To show latest engine installation and changes in "Security", "Status", "Features" and "Notes" blocks.

*Includes 1275 lb water/alcohol

**Requires 8,800 lb JATO fuel thus increasing take-off gross weight to 56,723 lb